

Week No.	Week of...	Reading chapter	Topic (Be=Bernstein <i>et al.</i> , Fo=Fowles, Pu=Purcell)	Problem Set No.	Due 5 PM on...
1	26-Aug	handout (Be 2,3) (Pu A, Fo I)	Special relativity: spacetime, light cone Rapidity, 4-momentum, space travel		
2	2-Sep	handout Pu 9,10,11	LABOR DAY HOLIDAY 4-vectors, EM field transformations, Doppler EM waves in vacuum/material, BCs	1	6-Sep
3	9-Sep 12-Sep	Fo 2	Polarization (12 Sep lecture delayed to 16 Sep, 5:10-6:30)	2	13-Sep
4	16-Sep	Fo 2 Fo 3 Fo 3	Plane reflection/refraction Interference Coherence	3	20-Sep
5	23-Sep	Fo 4 Fo 5	Multiple beams Diffraction	4	27-Sep
6	30-Sep	Fo 5 Be 4	Diffraction Photons, blackbody radiation	5	4-Oct
7	7-Oct 10-Oct	Be 4	Matter waves MIDTERM 1 (covers PS 1-5)		
8	14-Oct	Be 5 Be 6	Natural units and the Bohr atom Schroedinger equation	6	18-Oct
9	21-Oct	Be 6 Be 7	Square well Wave packets	7	25-Oct
10	28-Oct	Be 7 Be 9	Uncertainty principle Schroedinger equation for central potentials	8	1-Nov
11	4-Nov 7-Nov	Be 9	Angular momentum and the hydrogen atom MIDTERM 2 (covers PS 1-8)		
12	11-Nov	Be 9,10 handout	VETERANS DAY HOLIDAY Spin, statistics, addition of angular momenta "Pinnacle of human thought"	9	15-Nov
13	18-Nov	Be 10 Be 16	White dwarfs and neutron stars Standard Model of elementary particles	10	22-Nov
14	25-Nov 28-Nov	Be 17	General relativity THANKSGIVING HOLIDAY		
15	2-Dec	Be 18	Cosmology and the accelerating universe LAST LECTURE (review)	11	6-Dec
16	9-Dec 11-Dec 13-Dec	8-11 AM	Final exams begin H7C FINAL EXAM (Group 7) (covers PS 1-11)		

7C lab
(tentative)

NONE

NONE

reflection/
refraction

geometrical
optics

Michelson
interferom

diffraction/
interference

NONE

polar-
ization

NONE

photo-
electric

NONE

atomic
spectra

makeups

NONE

NONE